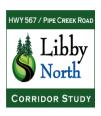
Libby North Corridor Project HWY 567 Pipe Creek Road MDT Project # HPP-TI-STP-0068(42)26 Build options cost estimate DRAFT 09/24/07



Summary of Costs	
	Total - 2006 Dollars
Option 1 - Full Reconstruction	\$ 24,727,032
Option 2- Rehab with widening to 24'	\$ 10,165,987
Option 3 - Rehab with no widening	\$ 5,698,042
Option 4 - Spot Improvments	\$ 187,501
Option 5 - Snow Storage Widening	\$ 450,528
Option 6 - Recommended in Corridor Study	\$ 15,500,000

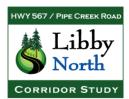
DRAFT 09/24/07



Summary of Costs Total Cost including 12% Roadway - 2006 Right of Way -Total - 2006 Total - 2012 Indirect Cost Recovery -2006 Dollars Dollars **Dollars** 2012 Dollars **Dollars** Option 1 - Full Reconstruction \$ 22,711,542 2,015,490 \$ 24,727,032 Option 2- Rehab with widening to 24' \$ 9,832,487 \$ 333,500 \$ 10,165,987 Option 3 - Rehab with no widening \$ 5,604,001 5,698,042 \$ 94,041 \$ 187,501 Option 4 - Spot Improvments \$ 187,501 \$ Option 5 - Snow Storage Widening \$ 444,778 \$ 5,750 \$ 450,528 \$ 18,510,000 20,730,000 Option 6 - Corridor Plan 15,280,000 \$ 219,000 \$ 15,500,000 Corridor Plan Re-align RP 8 \$ 890,000 \$ 6,000 \$ 900,000 1,070,000 1,200,000 1,490,000 Corridor Plan Re-align RP 11 \$ 1,110,000 \$ 1,330,000 6,000 \$ 1,110,000 Corridor Plan Segment 1 - RP 7 to RP 12 \$ 4,970,000 52,000 5,020,000 5,990,000 6,710,000 \$ \$ Corridor Plan Segment 2 - RP 12 to RP 17 \$ 4,910,000 \$ 161,000 \$ 5,070,000 6,050,000 6,780,000 Corridor Plan Segment 3 - RP 17 to RP 20.1 8,470,000 6,330,000 6,000 6,330,000 7,560,000 \$ \$ Notes: 1) Costs inflated by 3% per year to obtain 2012 costs 2) Indirect Cost Recovery rate estimated, and may vary from year to year

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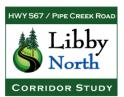
Developed: DRN Checked: JC



Alternative Name: Pipe Creek Road - Option 1 Full Reconstruct RP 6.1 - RP 20.1

		Item					
Category	Line Number ¹	Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and			A 0 5 00 00	A =0.4 =0.0	
		Grubbing Demolition of	149	Acre	\$3,500.00	\$521,500	
Demolition and Removal	2	Buildings	1	Each	\$5,000.00	\$5,000	
		Demolition of		20011	φοισσίου	φοίοσο	
	3	Bridges	1	Each	\$30,000.00	\$30,000	
	4		Dem	olition and Re	emoval Contingency	\$83,475	15%
	_						
Forthwark and Crading	5	Unclassified Excavation	600,000	v43	\$10.00	000 000	From Model
Earthwork and Grading		Embankement in	000,000	yus	\$10.00	\$0,000,000	Pay for difference between cut and fill only (using
	6	place	239,000	vd3	\$10.00	\$0	60% of cut)
	7		Ear	thwork and G	Grading Contingency	\$900,000	,
		Pipe Culverts,					
		Catch Basins,					
General Drainage	8	etc.	1	Lump	\$456,780.00		Assumed replacing all crossing structures
	9		ı	Dr	ainage Contingency	\$45,678	10%
Pavement (Mainline, Ramps,	10	Pavement and Base	72.020	4	\$43.24	¢2 106 201	Assuma 2.6" superpaya 8.9" srushed aggregate
and CDs)	11	Dase	73,920		Paving Contingency	\$3,196,301 \$479,445	Assume 3.6" superpave & 8" crushed aggregate
		Bridge (2nd	I	I	T aving Contingency	φ479,440	1376
	12	Level Concrete)					
Structures			1,312	ft ²	\$110.00	\$144,320	
	13						
		Retaining Walls	38,610		\$70.00	\$2,702,700	
	14			St	ructure Contingency	\$427,053	15%
General Utility	45	Adjust / Relocate	_	l.	*****		
Adjustments/Relocations	15 16	Utility		Lump	\$300,000.00 ocation Contingency	\$300,000 \$45,000	Assumed to be 5% of earthwork and grading
	17	Signing		Lump	\$40,000.00	\$45,000 \$40,000	
	18	Striping	73,920		\$40,000.00		assume 4-4" stripes
	19	Otriping	73,920		Striping Contingency		
	20	Guardrail	16,600		\$20.00	\$332,000	
	21	Landscaping		Acre	\$4,050.00	*** /***	area between edge of pavement and cut/fill line
	22	Fencing	138,619		\$2.60	\$360,409	, , , , , , , , , , , , , , , , , , ,
	23			Genera	Other Contingency	\$113,386	10%
	29				Subtotal	\$16,786,062	
	30		<u> </u>	10%		\$1,678,606	
	31			2.5%		\$419,652	
	32			Traffic (Control Contingency	\$41,965	10%
	33				Subtotal	\$18,926,285	
	34			10%	3	\$1,892,628	
SUBTOTAL	35			10%		\$1,892,628	
SUDIUIAL	36 37	Administration	50	Parcel	Subtotal \$5,000	\$22,711,542 \$250,000	
	38	USFS	180		\$5,000	\$250,000	
5: 1: (1)		Relocation (out	100	Acre	Φ0	Φ0	
Right-of-Way	39	buildings)	1	Each	\$20,000	\$20,000	
	40	ROW From			, 1,,,,,	,,	
	40	Private Entities	15	Acre			Acquisition
	41				R/W Contingency	\$262,890	15%
	42		Total Road	way Eleme	ents2006 USD	\$24,727,032	

Developed: DRN Checked: JC

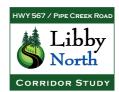


Alternative Name: Pipe Creek Road - Option 2-24' Widening Rehab

RP 6.1 - RP 20.1

	,	Item					
Category	Line Number ¹	Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	78	Acre	\$3,500.00	\$273,000	
Demolition and Removal	2	Demolition of				,	
	_	Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of	_	C	\$20,000,00	#20.000	
	4	Bridges		Each	\$30,000.00 emoval Contingency	\$30,000 \$45,450	150/
	4		Dem	I	T Contingency	\$45,450	15%
Earthwork and Grading	5	Unclassified Excavation	130,796	yd3	\$10.00	\$1,307,960	From Model
	6	Embankement in place	115,449	vd3	\$10.00	\$360.714	Pay for difference between cut and fill only (using 60% of cut)
	7	piacc			Grading Contingency	\$251,651	
	/	Pipe Culverts,	Lai	I WOIK and C	Tading Contingency	\$231,031	1576
		Catch Basins,					
General Drainage	8	etc.	1	Lump	\$456,780.00	\$456,780	Assumed replacing all crossing structures
Ü	9				rainage Contingency	\$45,678	
Pavement (Mainline, Ramps,	10	Pavement and]	, 0,0.0	
and CDs)		Base	73,920	ft	\$29.79	\$2,202,077	Assume 3.6" superpave & 8" crushed aggregate
	11				Paving Contingency	\$330,312	15%
		Bridge (2nd					
Structures	12	Level Concrete)	1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
	13	Retaining Walls	12,955	ft ²	\$70.00	\$906,850	
	14			St	ructure Contingency	\$140,528	15%
General Utility		Adjust / Relocate					
Adjustments/Relocations	15	Utility		Lump	\$83,883.70		Assumed to be 5% of earthwork and grading
	16				ocation Contingency	\$12,583	15%
	17	Signing		Lump	\$40,000.00	\$40,000	
	18	Striping	73,920		\$0.92	. ,	Assume 1-double yellow center line
	19				Striping Contingency	\$16,201	15%
	20	Guardrail	14,046		\$20.00	\$280,920	
	21	Landscaping		Acre	\$4,050.00		area between edge of pavement and cut/fill line
	22	Fencing	0	ft	\$2.60	\$0	
	23			Genera	d Other Contingency	\$59,682	10%
	29				Subtotal	\$7,267,175	
	30			10%		\$726,717	
	31			2.5%		\$181,679	
	32			Traffic	Control Contingency	\$18,168	10%
	33				Subtotal	\$8,193,739	
	34	1		10%	3	\$819,374	
SUBTOTAL	35			10%		\$819,374	
SORIGIAL	36 37	A desinistratic -	0.5	D	Subtotal	\$9,832,487	
		Administration	25	Parcel		\$125,000	
	38	USFS	71	Acre	\$0	\$0	
Right-of-Way	39	Relocation (out buildings)	0	Each	\$20,000	\$0	
	40	ROW From Private Entities	7	Acre			Easement
	41				R/W Contingency	\$43,500	15%
	42		Total Road	way Eleme	ents2006 USD	\$10,165,987	
				· ·		•	
		!					<u>L</u>

Developed: DRN Checked: JC

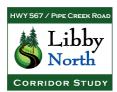


Alternative Name: Pipe Creek Road - Option 3 Rehab with no widening
Assume 3" pavement overlay, shallowing out fill slopes not by pipe creek, install guardrail as necessary, no widening

RP 6.1 - RP 20.1

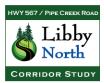
		Item	I		1		
Category	Line Number ¹	Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	15	Acre	\$3,500.00	\$51,891	
Demolition and Removal	2	Demolition of	13	AGIG	ψ3,300.00	ψ31,031	
Demonition and Removal	2	Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4				Removal Contingency	\$7,784	
	_	111161					
Earthwork and Grading	5	Unclassified Excavation	0	vd3	\$10.00	\$0	From Model
	6	Embankement in				·	
		Place	52,657		\$10.00	\$526,565	
	7	D: 0 ! .	Ea	rtnwork and	Grading Contingency	\$78,985	15%
		Pipe Culverts,					
General Drainage	8	Catch Basins, etc.		Lump	\$456,780,00	¢o.	
General Drainage		eic.	0			\$0	
Pavement (Mainline, Ramps,	9 10	Pavement and	1	I	rainage Contingency	\$0	10%
and CDs)	10	Base	73,920	ft	\$26.30	\$1,944,096	Assumes 3.6" superpave overlay
,	11				Paving Contingency	\$291,614	
		Bridge (2nd	l				
	12	Level Concrete)					
Structures		,	0	ft ²	\$110.00	\$0	
	13			2	4 70.00	4507.000	
		Retaining Walls	8,100		\$70.00	\$567,000	
O a margar I I I I I I I I I I	14	Adiana / Dalana	·	5	tructure Contingency	\$85,050	15%
General Utility	15	Adjust / Relocate		Lump	\$0.00	¢o.	Assumed to be 50/ of southwest, and are disc
Adjustments/Relocations	16	Utility			location Contingency		Assumed to be 5% of earthwork and grading 15%
	17	Signing		Lump	\$50.000.00	\$50.000	
	18		73,920		\$50,000.00	* /	
	19	Striping	73,920		Striping Contingency	\$17,646	Assume 1-double yellow center line 15%
	-	Guardrail	16,574				15%
	20 21				\$20.00	\$331,477	
	22	Landscaping		Acre ft	\$4,050.00	\$56,042	area between edge of pavement and cut/fill line
	23	Fencing	0		\$2.60 al Other Contingency	\$0 \$38,752	400/
	29			Genera			
	30	+		10%	Subtotal Mobilization	\$4,114,538 \$411,454	
	31	 		3.5%		\$411,454 \$144,009	
	32				Control Contingency	\$144,009 \$14,401	
	33			Hanne	Subtotal	\$14,401 \$4,670,001	1070
	33	 		10%		\$4,670,001	
	35	 		10%		\$467,000 \$467,000	
SUBTOTAL	36			10%	Subtotal	\$467,000 \$5,604,001	
SUBTUTAL	37	Administration	4	Parce		\$20,000	
		, willingtiation	4	Faite	φ3,000	φ∠0,000	
Right-of-Way	40	USFS-easement	12	Acre	\$0	\$0	
3	42	easement From					
	42	Private Entities	2	Acre	\$25,000	\$61,775	Easement
	45				R/W Contingency	\$12,266	
	46		Total Road	wav Elem	ents2006 USD	\$5,698,042	
			,	.,	,	, , , , , , , , , , , , , , , , , , ,	
		1				I	

Developed: DRN Checked: JC



Alternative Name: Pipe Creek Road - Option 4 Spot Improvements RP 6.1 - RP 20.1

Category	Line Number ¹	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	(0 Acre	\$3,500.00	\$0	
Demolition and Removal	2	Demolition of Buildings	(0 Each	\$5,000.00		
	3	Demolition of Bridges		0 Each	\$30,000.00		
	4	Dilagoo			Removal Contingency		15%
Earthwork and Grading	5	Unclassified Excavation		0 yd3	\$10.00		From Model
_artimonk and Grading	6	Embankement in Place		0 yd3	\$10.00		Pay for difference between cut and fill only (using 60% of cut)
	7				Grading Contingency		15%
		Pipe Culverts, Catch Basins,					
General Drainage	8	etc.	(0 Lump	\$452,780.00	\$0	Assumed replacing all crossing structures
	9				Drainage Contingency	\$0	10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	(0 ft	\$47.51	\$0	
	11				Paving Contingency	\$0	15%
Structures	12	Bridge (2nd Level Concrete)		o ft²	\$110.00	\$0	
	13	Retaining Walls	(D ft ²	\$70.00		
	14		•		Structure Contingency	\$0	15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	(0 Lump	\$0.00		Assumed to be 5% of earthwork and grading
	16			<i>'</i>	elocation Contingency		15%
	17	Signing		1 Lump	\$50,000.00		
	18	Striping	73,920		\$0.92	,	Assume 1-double yellow center line
	19 20	Guardrail	1 /		y/Striping Contingency	\$17,646	
	20	Landscaping		0 ft 0 Acre	\$20.00 \$4,050.00		
	22	Fencing		0 ft	\$4,050.00		
	23	rending	<u> </u>		ral Other Contingency		10%
	29			00.10	Subtota		1078
	30			10'			
	31			5'			
	32			Traffi	Control Contingency		10%
	33				Subtota	\$156,251	
	34			10'	% Design Egr.	\$15,625	
	35			10'	% Const. Egr.	\$15,625	
SUBTOTAL	36				Subtotal	\$187,501	
	37	Administration		0 Parc			
Right-of-Way	40	USFS	(O Acre	es \$25,000	\$0	
ragin or vray	42	ROW From Private Entities	(0 Acre			Easement
	45				R/W Contingency		15%
	46				nents2006 USD	\$187,501	



Pipe Creek Road - Option 5 Snow Storage Widening RP 6.1 - RP 20.1 Alternative Name:

Category	Line Number ¹	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing		Acre	\$3,500.00	\$23,100	
Demolition and Removal	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges		Each	\$30,000.00	\$0	
	4	,			emoval Contingency	\$3,465	
	5	Unclassified Excavation	4100	yd3	\$10.00		RP 10.9 - 11.1 - Left
	5	Unclassified Excavation	900		\$10.00		RP 14.32 - RP 14.35 - Right
	5	Unclassified Excavation	900	yd3	\$10.00	\$9,000	RP 14.6 - 14.7 - Right
	5	Unclassified Excavation	400	yd3	\$10.00		RP 15.1 - RP 15.2 - Right
	5	Unclassified Excavation	650	yd3	\$10.00	\$6,500	RP 15.3 - RP 15.4 - Right
	5	Unclassified Excavation	1300	yd3	\$10.00	\$13,000	RP 15.41 - RP 15.43 - Right
	5	Unclassified Excavation	1725	yd3	\$10.00	\$17,250	RP 15.46 - RP 15.54 - Right
	5	Unclassified Excavation	2900	yd3	\$10.00		RP 15.9 - RP 16.1 - Right
Earthwork and Grading	5	Unclassified Excavation	200	yd3	\$10.00	\$2,000	RP 16.15 - RP 16.17 - Right
Earthwork and Grading	5	Unclassified Excavation	500	yd3	\$10.00	\$5,000	RP 16.7 - RP 16.8 - Left & Right
	5	Unclassified Excavation	5200	yd3	\$10.00	\$52,000	RP 17.9 - 18.2 - Right
	5	Unclassified Excavation	620	yd3	\$10.00		RP 18.32 - RP 18.36 - Left & Right
	5	Unclassified Excavation	150		\$10.00		RP 18.69 - RP 18.7 - Right
	5	Unclassified Excavation	250		\$10.00		RP 18.6 - RP 18.7 - Right
	5	Unclassified Excavation	5800	yd3	\$10.00		RP 18.8 - RP 20.0 - Left
	5	Unclassified Excavation - Total	25,595		\$10.00		From Model
	6	Embankement in Place	0	vd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Embankement in Flace			Grading Contingency	\$38,393	
						400,000	
General Drainage	8	Pipe Culverts, Catch Basins, etc.	0	Lump	\$452,780.00		Assumed replacing all crossing structures
	9			Dr	ainage Contingency	\$0	10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	0	ft	\$47.51	\$0	
	11				Paving Contingency	\$0	15%
Structures	12	Bridge (2nd Level Concrete)	0	ft ²	\$110.00	\$0	
Otractares	13	Retaining Walls	0	ft ²	\$70.00	\$0	
	14			St	ructure Contingency	\$0	15%
General Utility							
Adjustments/Relocations	15	Adjust / Relocate Utility		Lump	\$12,797.50		Assumed to be 5% of earthwork and grading
	16 17				ocation Contingency		15%
		Signing		Lump	\$50,000.00	\$0	
	18 19	Striping	0	ft Signing/S	\$0.92 Striping Contingency		Assume 1-double yellow center line 15%
	20	Cuandrail		ft Signing/S			15%
	21	Guardrail Landscaping		π Acre	\$20.00 \$4,050.00	\$0 \$0	
	22	Fencing		ft	\$4,050.00 \$2.60	\$0 \$0	
	23	i crioing			Other Contingency		10%
	29			Ochera	Subtotal	\$320,908	
	30	†		10%	Mobilization	\$32,091	
	31	†		5%	Traffic Control	\$16,045	
	32				Control Contingency	\$1,605	
	33				Subtotal	\$370,648	
	34			10%	Design Egr.	\$37,065	
	35		-	10%	Const. Egr.	\$37,065	
SUBTOTAL	36			- 110	Subtotal	\$444,778	
	37	Administration	1	Parcel	\$5,000	\$5,000	
Right-of-Way	40	USFS	7	Acres	\$0	\$0	
	42	ROW From Private Entities	0	Acres		\$0	Easement
	45				R/W Contingency	\$750	15%
	46		Total Road	way Eleme	\$450,528		

Developed: DRN Checked: JC



Pipe Creek Road - Corridor Plan RP 7 - RP 20.1 Alternative Name:

Category	_		Item					
Demoition and Removal Part Committee	Category	Line Number		Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal Committed Com		1		70	Aoro	¢3 500 00	¢252,000	
Parenterior				12	Acie	\$3,500.00	\$232,000	
Sample	Demolition and Removal	2		0	Each	\$5,000,00	\$0	
Section Sect						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
Earthwork and Grading		3		0	Each	\$30,000.00	\$0	
Earthwork and Grading Earthwork and Grading Section Sectio		4				Demolition and Removal Contingency	\$37,800	15%
Earthwork and Grading Earthwork and Grading Section Sectio								
Base		5						
Section Fig. Section	Earthwork and Grading			222,609	yd3	\$10.00	\$2,226,090	
Process		6		97 963	v43	\$10.00	90	Pay for difference between cut and fill only (using
Carb Basins		7	piace	67,003	yuo			
Carto Basins, Carto Basins		,	Pine Culverts			Laratwork and Grading Goridingency	ψ000,020	2376
Second S								
Pavement (Reconstruct) Base Bas	General Drainage	8		1	Lump	\$456,780.00	\$235,434	Assumed replacing all crossing structures
Base 2,000 ft \$4.068 \$81,360 Assume 3.6° superpave 8.6° crushed aggregate	· ·	9						
Pavement (24 Widering)	Pavement (Reconstruct)	10	Pavement and					
Same				2,000	ft	\$40.68	\$81,360	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22 Widening)	Pavement (24' Widening)	11					.	
Base 16,368 t \$26.74 \$437,680 Assume 5.07 superpaive 8.0° crushed aggregate Pavement Rehabilitation 13 Fix Private mix 67,168 t \$21.11 \$1,417,916 binder and 1% cement 75,000 \$2,693,040 \$30,000	Developed (00) Mideai · · ·	40		50,800	π	\$29.79	\$1,513,332	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation 13 FOR W Foam 14	Pavement (22' Widening)	12		40.000	4	****	£407.000	Accume 3.6" cuporpovo 8.9" orughod ======
Mink	Payament Rehabilitation	12		16,368	π	\$26.74	\$437,680	
Structures	Faverilent Kenabilitation	13		67 168	ft	\$21.11	\$1 <i>4</i> 17 916	
Structures		14	IIIX	07,100				
Structures			Bridge (2nd				φοσο,σσσ	2070
16		15						
Netatining Walls 38,472 1	Structures			1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
Netatining Walls 38,472 1		16						
Adjust Relocate 18			Retaining Walls	38,472	ft ²			
Adjustments/Relocations 18		17				Structure Contingency	\$544,608	20%
19		40				0444 004 50	0111 005	A
20 Signing 1 Lump	Adjustments/Relocations		Utility	1				
Striping			Signing	1				15%
22 Signing/Striping Contingency \$16,375 15% 23 Guardrail 4,804 t \$20.00 \$96,080 24 Landscaping 72 Acre \$4,050.00 \$291,600 area between edge of pavement and cut/fill line 25 Fencing 0 t \$2.60 \$50 26 General Other Contingency \$58,162 15% 32 Subtotal \$11,280,339 33 10% Mobilization \$11,128,034 34 2.5% Traffic Control \$282,008 35 Traffic Control Contingency \$42,301 15% 36 Subtotal \$12,732,682 37 10% Design Egr. \$1,273,268 38 10% Const. Egr. \$1,273,268 SUBTOTAL 39 Subtotal \$15,279,219 40 Administration 18 Parcel \$5,000 \$90,000 41 USFS 100 Acre \$5,000 \$90,000 43 Right-of-Way 42 Relocation (out buildings) 0 Each \$20,000 \$50,000 43 ROW From Private Entities 4 Acre \$25,000 \$100,000 Easement								Assume 1 double vellow center line
23 Guardrail 4,804 ft \$20.00 \$96,080 24 Landscaping 72 Acre \$4,05.00 \$291,600 area between edge of pavement and cut/fill line 25			Striping	09,100	IL			
24			Guardrail	4 804	ft			1076
25								area between edge of pavement and cut/fill line
Subtotal State Subtotal State								The state of the s
32 Subtotal \$11,280,339 33 10% Mobilization \$1,128,034 34 2.5% Traffic Control \$282,008 35 Traffic Control Contingency \$42,301 15% 36 Subtotal \$12,732,682 37 10% Design Egr. \$1,273,268 38 10% Const. Egr. \$1,273,268 SUBTOTAL 39 Subtotal \$15,279,219 40 Administration 18 Parcel \$5,000 \$90,000 41 USFS 100 Acre \$0 \$0 42 Relocation (out buildings) 0 Each \$20,000 \$0 43 ROW From Private Entities 4 Acre \$25,000 \$100,000 Easement 44 RW Contingency \$28,500 15%								15%
33 10% Mobilization \$1,128,034 34 2.5% Traffic Control \$282,008 35 Traffic Control Contingency \$42,301 15% 36 Subtotal \$12,732,682 37 10% Design Egr. \$1,273,268 38 10% Const. Egr. \$1,273,268 SUBTOTAL 39 Subtotal \$15,279,219 40 Administration 18 Parcel \$5,000 \$90,000 41 USFS 100 Acre \$0 \$0 41 USFS 100 Acre \$0 \$0 42 Relocation (out buildings) 0 Each \$20,000 \$0 43 ROW From Private Entities 4 Acre \$25,000 \$100,000 Easement 44 RW Contingency \$28,500 \$15%								
35 Traffic Control Contingency \$42,301 15% 36 Subtotal \$12,732,682 37 10% Design Egr. \$1,273,268 38 10% Const. Egr. \$1,273,268 SUBTOTAL 39 Subtotal \$15,279,219 40 Administration 18 Parcel \$5,000 \$90,000 41 USFS 100 Acre \$0 \$0 42 Relocation (out buildings) 0 Each \$20,000 \$0 43 ROW From Private Entities 4 Acre \$25,000 \$100,000 Easement 44 RW Contingency \$28,500 15%					10%			
36 Subtoal \$12,732,682		34			2.5%		\$282,008	
37						Traffic Control Contingency		15%
SUBTOTAL 39								
SUBTOTAL 39								
Administration 18 Parcel \$5,000 \$90,000					10%			
Acre S0 S0	SUBTOTAL							
Right-of-Way 42 Relocation (out buildings) 0 Each \$20,000 \$0								
Second		41		100	Acre	\$0	\$0	
ROW From Private Entities 4 Acre \$25,000 \$100,000 Easement 44	Right-of-Way	42			Face	***	***	
43 Private Entities 4 Acre \$25,000 \$100,000 Easement				0	Each	\$20,000	\$0	
44 R/W Contingency \$28,500 15%		43		4	Δοτο	\$25,000	\$100,000	Fasement
		44	aic Linnes	- 4	AUE			
Total roddwdy Lielliellia-2000 000 \$\psi_10,407,713								
		7-7-7				Total Roadway Lielliellis2000 03D	φ13, 431,113	
		l	l					

Developed: DRN Checked: JC



Pipe Creek Road - Corridor Plan RP 8 Re-alignement Alternative Name:

Length of Re-Alignment =

Category	Line Number ¹	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	- 5	Acre	\$3,500.00	\$17,850	
Demolition and Removal	2	Demolition of					
Domonation and Homoval		Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4			Lucii	Demolition and Removal Contingency	\$2,678	
Earthwork and Grading	5	Unclassified Excavation	3,500	vd3	\$10.00	\$35,000	From Model
zartiwork and Oracing	6	Embankement in	5,500	yuu	ψ10.00	ψ55,000	Pay for difference between cut and fill only (using
		place	0	yd3	\$10.00		60% of cut)
	7	D: 0 1 1		1	Earthwork and Grading Contingency	\$8,750	25%
		Pipe Culverts, Catch Basins,					
General Drainage	8	etc.	0	Lump	\$456,780.00		Assumed replacing all crossing structures
	9				Drainage Contingency	\$47,087	20%
Pavement (Reconstruct)	10	Pavement and Base	1,000	ft	\$40.68	\$40.690	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and	1,000		\$40.00	φ40,080	- coamo o o ouperpare a o orasino aggregate
		Base	0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base			#00.74		Assume 3.6" superpave & 8" crushed aggregate
	13	base	0	ft	\$26.74 Paving Contingency	\$10,170	
		Bridge (2nd Level			l aving comingons,	\$10,170	2070
	14	Concrete)		2			
Structures			0	ft ²	\$110.00	\$0	
	15	Retaining Walls	1,614	ft ²	\$70.00	\$112,980	
	16	Totaling Traine	.,	11.	Structure Contingency	\$22,596	
General Utility		Adjust / Relocate					
Adjustments/Relocations	17 18	Utility	1	Lump	\$1,750.00 General Utility Adjustment / Relocation Contingency	\$1,750 \$263	Assumed to be 5% of earthwork and grading
	19	Signing	1	Lump	\$2,000.00	\$2,000	
	20	Striping	1,000		\$0.92		Assume 1-double yellow center line
	21				Signing/Striping Contingency	\$438	
	22	Guardrail	300		\$20.00	\$6,000	
	23	Landscaping	5 0	Acre	\$4,050.00 \$2.60		area between edge of pavement and cut/fill line
	25	Fencing	0	π	General Other Contingency	\$0 \$3,634	
	31				Subtotal	\$566,454	
	32			20%	Mobilization	\$113,291	
	33			10.0%	Traffic Control	\$56,645	
	34 35				Traffic Control Contingency	\$8,497	
	36			10%	Subtotal Design Egr.	\$744,886 \$74,489	
	37			10%	Const. Egr.	\$74,489	
SUBTOTAL	38				Subtotal	\$893,864	
	39	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	5	Acre	\$0	\$0	
Right-of-Way	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	0	Acre	\$25,000	\$0	Easement
	43			510	R/W Contingency	\$750	15%
	44				Total Roadway Elements2006 USD	\$899,614	
							

Developed: DRN Checked: JC



Alternative Name: Pipe Creek Road - Corridor Plan RP 11 Re-alignement

RP 11 Re-alignement
Length of ReAlignment =

Category	Line Number ¹	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	4	Acre	\$3,500.00	\$15,400	
Demolition and Removal	2	Demolition of Buildings		Each	\$5,000.00	\$0	
	3	Demolition of Bridges			\$30,000.00	\$0	
	4	bridges	0	Each	Demolition and Removal Contingency	\$2,310	159/
	4			1	Demonition and Removal Contingency	\$2,310	15%
Earthwork and Grading	5	Unclassified Excavation	14,640	vd3	\$10.00	\$146.400	From Model
Lattiwork and Ordaing		Embankement in		yuo	ψ10.50	ψ1+0,400	Pay for difference between cut and fill only (usin
	6	place	260	yd3	\$10.00		60% of cut)
	7				Earthwork and Grading Contingency	\$36,600	25%
		Pipe Culverts,					
General Drainage	8	Catch Basins, etc.		Lump	\$456,780.00	\$00E 404	Assumed replacing all crossing structures
Selleral Drainage	9	etc.	0	Lump	Drainage Contingency	\$235,434 \$47,087	
Pavement (Reconstruct)	10	Pavement and	1	1	I Drainage containgency	φ+1,001	2070
avenient (reconstruct)	10	Base	1,000	ft	\$40.68	\$40,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	0		\$26.74		Assume 3.6" superpave & 8" crushed aggregate
	13	Dasc		jit.	Paving Contingency	\$10,170	
	.0	Bridge (2nd		l	I dving demangency	ψ10,110	2070
	14	Level Concrete)					
Structures		,	0	ft ²	\$110.00	\$0	
	15	D	4 04 4	2	#70.00	8440.000	
		Retaining Walls	1,614	rt-	\$70.00	\$112,980	200/
General Utility	16	Adjust / Relocate			Structure Contingency	\$22,596	20%
Adjustments/Relocations	17	Utility		Lump	\$7,320.00	\$0	Assumed to be 5% of earthwork and grading
,	18				eneral Utility Adjustment / Relocation Contingency		15%
	19	Signing	1	Lump	\$2,000.00	\$2,000	
	20	Striping	1,000	ft	\$0.92	\$920	Assume 1-double yellow center line
	21				Signing/Striping Contingency	\$438	15%
	22	Guardrail	500	ft	\$20.00	\$10,000	
	23	Landscaping		Acre	\$4,050.00		area between edge of pavement and cut/fill line
	24	Fencing	0	ft	\$2.60	\$0	
	25				General Other Contingency	\$3,626	15%
	31 32			000	Subtotal	\$700,816	
	32	-		20% 10.0%	Mobilization Traffic Control	\$140,163 \$70.082	
	33			10.0%	Traffic Control Contingency	\$70,082 \$10,512	15%
	35				Subtotal	\$921.573	1070
	36			10%		\$92,157	
	37			10%	Const. Egr.	\$92,157	
SUBTOTAL	38				Subtotal	\$1,105,888	
	39	Administration	1	Parce		\$5,000	
	40	USFS	4	Acre	\$0	\$0	
Right-of-Way	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	0				Easement
	43			. 1010	R/W Contingency		15%
	44				Total Roadway Elements2006 USD	\$1,111,638	
					,	Ţ ., , 	l

Developed: DRN Checked: JC

Pipe Creek Road - Corridor Plan Segment 1 RP 7 - RP 12 Alternative Name:

Length of Re-Alignment =

		Item					
Category	Line Number ¹	Description	Quantity	Units	Unit Cost	Extended Cost	Notes
	1	Clearing and Grubbing	27	Acre	\$3,500.00	\$94,500	
		Demolition of	21	Acre	\$3,300.00	\$94,500	
Demolition and Removal	2	Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of					
		Bridges	0	Each	\$30,000.00	\$0	
	4		ı	1	Demolition and Removal Contingency	\$14,175	15%
1	5	Unclassified					!
Earthwork and Grading	-	Excavation	91,361	yd3	\$10.00	\$913,610	From Model
	6	Embankement in					Pay for difference between cut and fill only (using
	7	place	22,254	yd3	\$10.00	\$0 \$228,403	60% of cut)
	/	Pipe Culverts,	1	1	Earthwork and Grading Contingency	\$228,403	Assumed replacing all crossing structures Except
		Catch Basins,					Bridge and Culvert Arch over Pipe Creek at RP
General Drainage	8	etc.	1	Lump	\$33,733.00	\$235,434	
<u> </u>	9				Drainage Contingency	\$47,087	20%
Pavement (Reconstruct)	10	Pavement and					
		Base	2,000	ft	\$40.68	\$81,360	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	24,400	4	#00 7 0	6700 070	Assume 3.6" superpave & 8" crushed aggregate
Dovoment (22' Midening)	12	Pavement and	24,400	π	\$29.79	\$726,876	Assume 3.6 superpave & 8 crushed aggregate
Pavement (22' Widening)	12	Base	n	ft	\$26.74	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam	Ŭ		Ψ20.7 1	Ψ	Assume FDR w/ foam mix w 3% PG 58-28 PG
		mix	24,400	ft	\$21.11	\$515,084	binder and 1% cement
	13				Paving Contingency	\$202,059	25%
		Bridge (2nd					
0	14	Level Concrete)			#00.000.00	****	
Structures			1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
	15	Retaining Walls	3,867	ft ²	\$70.00	\$270,690	
	16	J. C.			Structure Contingency	\$60,138	
General Utility		Adjust / Relocate			, ,	, ,	
Adjustments/Relocations	17	Utility	1	Lump	\$45,680.50		Assumed to be 5% of earthwork and grading
	18		•		neral Utility Adjustment / Relocation Contingency	\$6,852	
	19	Signing		Lump	\$15,380.00	\$15,380	
	20	Striping	26,400	Ħ	\$0.95		Assume 1-double yellow center line-6" wide
	22	Guardrail	1,000	4	Signing/Striping Contingency \$20.00	\$6,069 \$20,000	15%
	23	Landscaping		Acre	\$4,050.00		area between edge of pavement and cut/fill line
	24	Fencing	0		\$2.60	\$109,330	
	25	- chang		1.5	General Other Contingency	\$19,403	
	31				Subtotal	\$3,667,229	
	32			10%	Mobilization	\$366,723	
	33		•	2.5%	Traffic Control	\$91,681	
	34				Traffic Control Contingency	\$13,752	15%
	35				Subtotal	\$4,139,385	
	36	-		10%	Design Egr.	\$413,939	
SUBTOTAL	37 38			10%	Const. Egr.	\$413,939	
SUBTUTAL	38	Administration	4	Parcel	Subtotal \$5,000	\$4,967,262 \$20,000	
	40	USFS	38		\$5,000 \$0	\$20,000	
B	-	Relocation (out	36	ACIE	\$0	Φ0	
Right-of-Way	41	buildings)	0	Each	\$20,000	\$0	
	42	ROW From					
		Private Entities	1	Acre	\$25,000		Easement
	43				R/W Contingency	\$6,750	
	44				Total Roadway Elements2006 USD	\$5,019,012	
	•						ı

Developed: DRN Checked: JC

Pipe Creek Road - Corridor Plan Segment 2 RP 12 - RP 17 Alternative Name:

Length of Re-Alignment =

Line Number ¹	Description	O	11	Unit Cont	Futuralist Cook	Natas
		Quantity	units	UNIT COST	Extended Cost	Notes
1		33	Acre	\$3,500.00	\$115,500	
2	Demolition of					
		0	Each	\$5,000.00	\$0	
3		0	Fach	\$30,000,00	90	
4	Driages		Laon			15%
					Ţ,u_u	
5						
		77,148	yd3	\$10.00	\$7/1,480	From Model Pay for difference between cut and fill only (using
6		54.144	vd3	\$10.00	\$78.552	60% of cut)
7				Earthwork and Grading Contingency		
	Pipe Culverts,					Assumed replacing all crossing structures Excep
				\$00.004.00	@00E 404	Bridge and Culvert Arch over Pipe Creek at RP
	etc.	1	Lump			
-	Pavement and	I	1	Drainage Contingency	Ψ47,007	2078
	Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggregate
11	Pavement and					
40		26,400	ft	\$29.79	\$786,456	Assume 3.6" superpave & 8" crushed aggregate
12		0	ft	\$26.74	90	Assume 3.6" superpave & 8" crushed aggregate
13	FDR w/ Foam	Ů		Ψ20.14		Assume FDR w/ foam mix w 3% PG 58-28 PG
	mix	26,400	ft	\$21.11		binder and 1% cement
14				Paving Contingency	\$196,614	25%
45						
15	Level Concrete)	0	Fach	\$30,000,00	90	
		Ů	Laon	ψ30,000.30	φο	
16	Retaining Walls	3,562	ft ²	\$70.00	\$249,340	
17				Structure Contingency	\$49,868	20%
40				040 504 00	0.40.500	A
	Utility	1				Assumed to be 5% of earthwork and grading 15%
	Signing	1				1376
						Assume 1-double yellow center line-6" wide
22			<u> </u>		\$6,069	15%
23	Guardrail	1,600	ft	\$20.00	\$32,000	
24	Landscaping	33	Acre	\$4,050.00	\$133,650	area between edge of pavement and cut/fill line
25	Fencing	0	ft	\$2.60	\$0	
						15%
			3.0%			15%
						1070
37			10%			
38			10%	Const. Egr.	\$408,802	
39				Subtotal	\$4,905,629	
40	Administration	13	Parcel	\$5,000	\$65,000	-
41		44	Acre	\$0	\$0	
42		0	Each	\$20.000	\$0	
43	ROW From					
	Private Entities	3	Acre			Easement
						15%
45	l			Total Roadway Elements2006 USD	\$5,066,629	
	1 2 3 4 4 5 6 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 32 24 25 36 33 34 35 36 37 38 39 39 40 41	Clearing and Grubbing	Clearing and Grubbing 33	Clearing and Clea	Clearing and Groutbing 33 Acre \$3,500.00	Clearing and Single 33 Acre \$3,500.00 \$115,500

Developed: DRN Checked: JC

Pipe Creek Road - Corridor Plan Segment 3 RP 17 - RP 20.1 Alternative Name:

Length of Re-Alignment =

1 2	Description Clearing and Grubbing	Quantity	Units	Unit Cost	Extended Cost	Notes
	Grubbing					†
2		12	Acre	\$3,500.00	\$40,600	
2	Demolition of					
	Buildings Demolition of	0	Each	\$5,000.00	\$0	
3	Bridges	0	Each	\$30,000.00	\$0	
4				Demolition and Removal Contingency	\$6,090	15%
_	Unclassified					
5	Excavation	54,100	yd3	\$10.00	\$541,000	From Model
6	Embankement in					Pay for difference between cut and fill only (using
	place	11,465	yd3			60% of cut)
/	Pipe Culverts.			Earthwork and Grading Contingency	\$135,250	25%
	Catch Basins,					
8	etc.	1	Lump			
	Davis and and	1		Drainage Contingency	\$47,087	20%
	Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggregate
11		0	f+	\$20.70	40	Assume 3.6" superpave & 8" crushed aggregate
12	Pavement and	0	II.	\$29.79	\$0	Produting 0.0 superpave & 0 Grustied aggregate
	Base	16,368	ft	\$26.74	\$437,680	Assume 3.6" superpave & 8" crushed aggregate
13		16 269	4	\$24.44	\$24E E20	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
13	IIIIX	16,368	Įπ			
	Bridge (2nd			r aving comingono,	\$105,420	2070
14	Level Concrete)					
		0	Each	\$30,000.00	\$0	
15	Retaining Walls	31.043	ft ²	\$70.00	\$2,173,010	
16				Structure Contingency		20%
	Utility	1				Assumed to be 5% of earthwork and grading
	Signing	1				1376
20				\$0.95		Assume 1-double yellow center line-6" wide
21		•		Signing/Striping Contingency	\$3,763	15%
	Guardrail			\$20.00	\$44,080	
						area between edge of pavement and cut/fill line
	rencing	0	Įπ			15%
31						10,0
32			10%	Mobilization	\$467,038	
33			2.5%	Traffic Control	\$116,759	
						15%
			400/			
38			1076	Subtotal	\$6,326,025	
39	Administration	1	Parcel	\$5,000	\$5,000	
40		18	Acre	\$0	\$0	
41	buildings)	0	Each	\$20,000	\$0	
42	ROW From Private Entities	0	Acre	\$25,000	\$0	Easement
43				R/W Contingency		
44				Total Roadway Elements2006 USD	\$6,331,775	
	9 10 11 12 13 13 14 15 16 17 18 19 20 21 22 23 24 25 31 32 33 34 35 36 37 38 39 40 41	Excavation	Excavation 54,100	Excavation	Section Sect	Section Sect

Pipe Creek Road - Corridor Plan Segment 3 RP 17 - RP 20.1 Alternative Name:

Length of Re-Alignment =

Line Number ¹	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
1		12	Δcro	\$3 500 00	\$40,600	
	Demolition of	12	ACIC	\$0,000.00	ψ-10,000	
2	Buildings	0	Each	\$5,000.00	\$0	
3			Eoob	\$30,000,00	60	
4	Bridges	0	Each			15%
-				Demontori and removal contangency	ψ0,030	1070
5	Unclassified					
Earthwork and Grading 6 7		54,100	yd3	\$10.00	\$541,000	From Model Pay for difference between cut and fill only (us)
		11 465	vd3	\$10.00	\$0	60% of cut)
	pidoo	11,100	yuo			
	Pipe Culverts,			, , , , , , , , , , , , , , , , , , ,	,	
CI Brain						
	etc.	1	Lump			200/
	Pavement and			Drainage Contingency	\$47,087	2076
	Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggrega
11	Pavement and			·		
		0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggrega
Pavement (22' Widening) 12		16 369	ft	\$26.7 <i>A</i>	\$437 690	Assume 3.6" superpave & 8" crushed aggrega
13	FDR w/ Foam	10,300		\$20.74	φ 4 57,000	Assume FDR w/ foam mix w 3% PG 58-28 PG
	mix	16,368	ft	\$21.11	\$345,528	binder and 1% cement
13				Paving Contingency	\$109,420	25%
14	Level Concrete)	ا ا	Each	90,000,00	90	
				\$30,000.00	φυ	
15	Retaining Walls	31,043	ft ²	\$70.00	\$2,173,010	
16				Structure Contingency	\$434,602	20%
47				\$27.0F0.00	\$07.0F0	A
	Ounty	1				Assumed to be 5% of earthwork and grading
19	Signing	1				1070
20	Striping			\$0.95		Assume 1-double yellow center line-6" wide
21				Signing/Striping Contingency	\$3,763	15%
22	Guardrail			\$20.00	\$44,080	
						area between edge of pavement and cut/fill lin
	Fencing	0	ft			450/
						1376
-			10%			
	 					
34				Traffic Control Contingency		15%
35				Subtotal	\$5,271,687	
36			10%	Design Egr.	\$527,169	
			10%	Const. Egr.	\$527,169	·
	A 1					
		18	Acre	\$0	\$0	
Right-of-Way 41	buildings)	0	Each	\$20,000	\$0	
	ROW From	-			* -	
	Private Entities	0	Acre	\$25,000		Easement
43						15%
44	i			Total Roadway Elements2006 USD	\$6,331,775	
	1 2 3 4 4 5 5 6 7 7 8 8 9 10 11 12 13 13 14 15 16 16 17 18 19 20 21 22 23 24 25 33 34 34 35 36 37 7 38 38 39 40 41 42	1 Clearing and Grubbing	Clearing and Grubbing 12	Clearing and Carabbing 12 Acre	1	Clearing and 12 Acre \$3,500.00 \$40,600